

[illegible]



KENTUCKY TRANSPORTATION CABINET
Department of Highways
DIVISION OF HIGHWAY DESIGN

TC 61-505
Rev. 12/2012
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STORM SEWER DESIGN COMPUTABLE TABLE

INSTRUCTIONS

COL #	ITEM	DESCRIPTION
1.	End of Pipe ID	Inlet, manhole or junction number of symbol
2.	Station	Roadway station or end of pipe location
3.	Drainage area, A	Contributing drainage area at inlet or manhole
4.	Runoff coefficient, C	Representative runoff coefficient of drainage area
5.	CA	Intermediate runoff calculation
6.	Σ CA	Summation of CAs to this point
7.	Pipe travel time, T	Pipe length (col. 11)/Mean Velocity (col. 14)
8.	Total travel time	Travel time to inlet (col. 8) + pipe travel time (col. 7)
9.	Rainfall intensity, I	Compute based on total travel time (col. 8)
10.	Flow, Q	Rational discharge = CA (col. 6) x I (col. 9)
11.	Pipe Length, L	Place pipe entries between inlets, manholes, or junctions
12.	Pipe Slope, So	Slope of pipe in ft/ft
13.	Pipe diameter, D	Determine from nomograph or other means (n=0.012)
14.	Mean pipe velocity, V	Determine from nomograph or other means
15.	Full pipe flow	Determine from nomograph or other means
16.	Capacity (%)	Design capacity = Flow (col. 10)/Full pipe flow (col. 15); If design flow produces pressure flow, resize pipe.